

CLIMATOLOGICAL DATA FOR JUNE, 1912.

DISTRICT NO. 2, SOUTH ATLANTIC AND EAST GULF STATES.

CHARLES F. VON HERRMANN, District Editor.

GENERAL SUMMARY.

Generally low temperatures prevailed during June, 1912, the monthly means at most stations being below the normal, with departures ranging from near normal in southern Florida to about 4° below in northern Mississippi and at a few stations in the western part of the Carolinas. In Georgia, Alabama, and Mississippi the month was decidedly cool, the state means showing deficiencies respectively of 2.4°, 2.8°, and 3.8°. The distinctive feature of the weather for the month, however, was the extreme irregularity in the distribution of precipitation, and the unusually large amounts received in portions of Georgia and Florida. In Florida the rainfall for the month exceeded 10 inches at 34 stations, and was more than 20 inches at 5 stations. It was the wettest June in Florida since the establishment of the section in 1891, the State average, 11.61 inches, being 5.06 inches above the normal. In Georgia, also new records for heavy rains in June were established at the capital city, Atlanta, and at many other stations; June, 1912, was the ninth consecutive month with the precipitation above normal, the accumulated excess for the State at large being over 18 inches. At Atlanta and many other places in the east Gulf States the rainfall for the first 6 months of the year 1912 is within a few inches of the total usually received during the entire year, conditions differing so remarkably from the dry years immediately preceding as to attract general attention.

The great frequency of rainfall seriously interfered with outdoor occupations, especially the cultivation of crops which have become extremely grassy, while the deficiency in sunshine and relatively low temperatures prevented normal growth, causing a very discouraging outlook in large portions of Georgia, Florida, and adjoining States. The continuously high humidity by favoring the development of molds and bacteria caused the rapid decay of fruit and vegetables so that much was lost before it could be marketed, and even in the home such articles have spoiled with annoying rapidity.

In other portions of the district conditions have not been so unfavorable. The excess in precipitation was less marked in the Carolinas and there was a deficiency in Virginia; in these States outdoor work was carried on with less interruption, and crops are in better condition.

The most important barometric depressions that had an immediate influence on the weather in the east Gulf States were the disturbances in the Gulf of Mexico on the 6th to 10th, and that over the Gulf States on the 11th to 14th. The lowest atmospheric pressure occurred throughout the district on the 13th or 14th, with a minimum of 29.54 inches at Birmingham, Ala. The pressure, however, was somewhat above normal for

long periods, reaching a maximum of 30.43 inches at Richmond, Va., on the 10th.

A slight earthquake shock was reported to have occurred in the southern and western portions of South Carolina and in southeastern Georgia at 5.30 a. m. on the 12th.

TEMPERATURE.

The month was cool in all portions of the district except southern Florida as a result of the generally cloudy weather which prevented very high temperatures except on a few days, and the period of unusually cool weather from the 6th to 15th during which new records for low temperatures in June were established at several stations. At Lynchburg, Va., the minimum on the 9th fell to 44.8°, and at Richmond to 47.8°, the lowest temperatures recorded in June. At Charlotte, N. C., the period of 6 days from the 6th to 12th forms the coldest in the history of the station for this month. Minimum temperatures ranged below 45° in northern Georgia and 40° or lower in western North Carolina and Virginia, with the lowest for the district, 38°, on the 10th at Lexington, Va. (Hot Springs missing). The temperature, however, was more continuously below normal in the Gulf States from Georgia west to Mississippi than in the northern portions of the district.

Warm weather prevailed from the 1st to 5th and from the 16th to 19th, the highest temperatures occurring quite generally during the latter period. Temperatures above 90° were registered in all portions of the district, and about 100° at a few places in South Carolina, Georgia, Florida, and Alabama, with the maximum for the district, 103° at Orange City, Fla., on the 19th. During the remainder of the month the temperatures continued uniformly below normal.

The mean temperature for the entire district was 75° or 2° below normal. The monthly means at individual stations were above 80° at comparatively few places in Florida, and below 70° at but two stations in northern Georgia and two in western North Carolina.

PRECIPITATION.

Reference has been made to the distinctively unfavorable feature of the weather for the month, the frequent and excessive precipitation in Florida, Georgia, and in a few sections of other States, which was not only disastrous to agricultural interests in those States but was extremely annoying to city people, interfering with outdoor occupations, building operations, street repair work, etc., limiting trade, causing unexpected leaks in roofs and damp and musty odors in houses, and overshadowing in point of interest the more nearly normal conditions that

prevailed over other portions of the district. The rainfall in Florida, where the rainy season usually begins in June, was unusually large. Over the main portion of the peninsula the rainfall ranged from 10 to over 20 inches at nearly all stations, and exceeded 25 inches at a few places immediately south and southeast of Tampa, viz: Pinellas Park, 26.83; Hypoluxo, 25.19; and Bradenton, 25.62 inches. Other regions of excessive rainfall with more than 10 inches for the month are found in southern Georgia, in the vicinity of Atlanta, where the total for the month, 11.21 inches (departure +7.22), is the largest amount received in June in 47 years, in eastern North Carolina and the central-west portion of the Mississippi area.

The rainfall was only moderately above normal in Mississippi, Alabama, and the Carolinas, and there was a considerable deficiency in Virginia, where the total for the month was under 2 inches at some stations. The State averages ranged from 3.47 inches (departure -0.86) for the Virginia area to 11.61 inches (departure +5.06) for Florida. The mean for the district was 6.34 inches, or 1.40 above normal.

Of distinct periods of rainfall it is hardly possible to speak, as scattered showers occurred throughout the month in several States, but as a rule the rains were most general from the 2d to 7th, 13th to 16th, and 24th to 30th. Excessive downpours occurred, especially on the 2d, 6th to 8th, 10th, 14th, and 24th to 25th. The maximum 24-hourly amount was 8.42 inches at Hypoluxo, Fla., on the 10th, followed by 5.95 inches at Charleston, S. C., on the 6th-7th.

Thunderstorms were very frequent during the month, being generally, however, of a mild character. Several hailstorms, a few severe, were reported, most of them in Alabama and Mississippi.

MISCELLANEOUS PHENOMENA.

The prevailing winds during the month were from the southwest in all States in the district, except Florida and Mississippi, where they were from the southeast and south. The wind movement was not large, the average hourly velocity exceeding 10 miles at Hatteras, Charleston, Pensacola, and Sand Key only. The highest wind velocity was 54 miles an hour from the north, on the 10th, at Sand Key, Fla. Gales of 40 miles an hour or over occurred also on one day each at Hatteras, Wilmington, Charleston, Savannah, and Atlanta and on two days at Pensacola. The average number of clear days for the district was 11, partly cloudy days 10, cloudy days 9, and days with appreciable precipitation 11.

DAMAGE BY LOCAL STORMS.

A severe local rain and wind storm occurred at Atlanta on June 13th, causing considerable damage to property in the city. The rainfall for nine hours was 2.84 inches, and the wind rose to a velocity of 48 miles an hour at 9.15 p. m. Streets were badly washed by the downpour, some embankments carried away, stores in lower districts flooded, while the sudden increase in the wind blew in a number of plate-glass windows.

During a storm that occurred at Myrtle, Montgomery County, Alabama, a town about 14 miles southeast of Montgomery, hail fell for about 40 minutes, and some of the hailstones were three-fourths of an inch in diameter. Crops were considerably damaged and some buildings were unroofed by the accompanying wind. A similar storm occurred on the same day at Eufaula, Ala., and a man was killed by lightning near Clayton. Mr. John L. Bryan, marshal of Brantley, Ala., was killed by lightning on the 28th.

RIVER CONDITIONS.

As compared with preceding months relatively low stages prevailed during June in the rivers of Virginia, North Carolina, Alabama, and Mississippi, and flood stages were not attained at any point in those States. In South Carolina all the rivers averaged above the normal June stages, the highest occurring as a rule about the middle of the month. Flood stages were approached in the Lynch and Black Rivers and slightly exceeded in the Saluda at Chappells, in the Wateree at Camden, and in the Santee at Ferguson and Rimini. Based on the heavy rains of the 14th-15th, warnings were issued for flood stage at Cheraw on the upper Pedee. A crest stage of 27.5 feet, or 0.5 foot above the flood stage, was attained on the night of the 15th, being a rise of 24 feet within a little more than 36 hours. The water did not go sufficiently high to cause any material damage.

The rivers of Georgia were above the normal during the first half of the month, but flood stages were attained only in the Broad River at Carlton on one day, in the Ocmulgee River at Abbeville from the 10th to the 16th, and in the Oconee at Macon. Warnings were issued in ample time and very little damage resulted.

SPECIAL NOTES ON THE WEATHER IN FLORIDA DURING JUNE, 1912.

By A. J. MITCHELL, Section Director.

The continued and rather unusually heavy rains during the first decade of June resulted in much damage to melons and vegetables and greatly retarded general development throughout the peninsula. Lumbering in some instances was suspended, the water being too high for the logger to carry on his work. On the whole, the citrus crop was benefited by the rains, though a much less amount would have answered the needs of the situation. The fruit will be of splendid size and of excellent flavor. As a result of crop deterioration, however, the damage will aggregate hundreds of thousands of dollars.

ADDENDUM.

A tornado crossed the northwestern portion of Jefferson County, Ala., about 4 o'clock Monday morning, April 22, 1912, passing from Porter northeast to Newcastle, over a path about 200 to 400 yards wide and 20 miles long and doing more or less damage at Porter, Gin Town, Pinkney City, Brookside, and Mineral Springs. Many buildings were destroyed and a number of people were injured, but only 1 person was killed.

TABLE 1.—Climatological data for June, 1912. District No. 2, South Atlantic and east Gulf States.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation in inches.						Sky.	Prevailing wind direction.	Observers.				
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.				
<i>Virginia.</i>																						
Arvonia.	Buckingham.	350	8	71.4	- 1.7	93	2†	41	9	37	2.67	- 0.92	0.85	0	14	11	9	13	6	sw.	Rev. Plummer F. Jones.	
Ashland.	Hanover.	221	21	70.7	- 2.5	89	2†	45	9	29	2.93	- 1.28	0.73	0	9	9	14	7	sw.	E. L. C. Scott.		
Buchanan.	Botetourt.	820	8								3.88	- 1.12	0.95	0	7	7	7	7	7	e.	D. D. Booze.	
Calaville.	Brunswick.	250	18	73.1	0.0	97	17	43	9	40	3.16	- 0.97	0.95	0	8	20	8	2	sw.	F. M. Gage.		
Cape Henry.	Princess Anne.	20	38	72.1	- 0.8	91	29	52	11	25	3.09	- 1.33	0.66	0	14	12	4	14	s.	U. S. Weather Bureau.		
Charlottesville.	Albemarle.	800	23	72.2	- 0.1	94	17	49	8	29	4.08	- 1.81	1.45	0	14	9	10	11	s.	Leander McCormick Obs.		
Clarksdale.	Mecklenburg.	286	18								3.55	- 0.76	1.32	0	7	7	7	7	7	e.	J. A. Ligon.	
Columbia.	Fluvanna.	246	14	72.4	- 0.4	91	17	51	10	30	2.51	- 2.01	0.70	0	9	14	7	9	ne.	Chesapeake & Ohio Ry.		
Danville.	Pittsylvania.	413	12								7.63	+ 2.58	3.38	0	10						c.	C. G. Watkins.
Diamond Springs.	Princess Anne.	25	2	73.0		93	17	44	11	39	5.49		1.34	0	12	6	16	8		Va. Truck Exp. Sta.		
Dry Bridge.	Chesterfield.	325	1								2.60		0.59	0	8					e.	Dr. E. W. Magruder.	
Hampton.	Elizabeth City.	5	29	73.2	- 0.1	91	2†	54	9	25	2.92	- 0.85	0.63	0	12	20	0	10	10	e.	Normal and Agr. Institute.	
Hot Springs.	Bath.	2,195	20								4.82	- 0.49	0.93	0	11	19	2	9	9	e.	J. L. Beckley.	
Lassiter.	Goochland.	100	2								3.74		0.80	0	11	19	5	6	6	e.	T. J. Davis.	
Lexington.	Rockbridge.	1,060	35	71.2	+ 0.4	95	17	38	10†	45	4.48	+ 0.36	0.32	0	11	19	4	7	7	n.	Virginia Military Institute.	
Lynchburg.	Campbell.	685	41	71.6	+ 1.9	95	17	45	9	35	2.35	- 1.54	1.34	0	12	10	17	3	n.	U. S. Weather Bureau.		
Newport News.	Warwick.	55	9	73.2		93	1†	48	9	29	3.74		0.84	0	12	9	12	9	se.	C. W. Ashby.		
Norfolk.	Norfolk.	91	42	73.0	- 1.4	94	17	53	11	29	4.63	+ 0.30	1.40	0	12	9	12	9	se.	U. S. Weather Bureau.		
Randolph.	Charlotte.	334	8								3.06		0.92	0	8					e.	W. J. Abbott.	
Richmond.	Henrico.	144	33	72.2	- 2.9	93	17	48	9	30	2.50	- 1.02	0.74	0	11	7	11	12	12	ne.	U. S. Weather Bureau.	
Roanoke.	Roanoke.	907	2	70.0		90	2†	41	9	43	1.41		0.28	0	11	15	10	5	5	se.	Reese F. Bell.	
Rocky Mount.	Franklin.	1,150	18	70.0	- 2.8	93	17	39	9	44	3.12	- 1.86	1.05	0	9					e.	G. W. B. Hale.	
Ruckersville.	Greene.	625	1								3.84		0		12	9	9	12	12	sw.	Dr. Jesse Ewell.	
Spotsylvania (near).	Surry.	15	24	72.9	- 0.9	94	29	44	11	40	3.66	- 1.18	0.72	0	12	9	9	12	12	sw.	B. W. Jones.	
Williamsburg.	James City.	70	21	72.3	- 0.2	95	17	46	9	36	1.60	- 1.17	0.60	0	7	17	8	5	5	sw.	Eastern State Hospital.	
<i>North Carolina.</i>																						
Albemarle.	Stanly.	700		73.1		94	17†	45	9	40	6.39		2.25	0	7	18	7	5	sw.	M. J. Harris.		
Beaufort.	Carteret.	10	11	76.2	+ 0.2	97	18	57	8	25	7.96	+ 3.22	2.73	0	10	22	1	7	s.	H. D. Aller.		
Belhaven.	Beaufort.	4	3	75.4		99	18	48	11	35	9.97		2.30	0	10	19	10	1	s.	A. L. Bell.		
Caroileen.	Rutherford.	806	12	73.2	- 1.8	96	18	47	10†	40	6.97	+ 0.08	2.30	0	12	4	23	3	sw.	S. B. Tanner.		
Chalybeate Springs.	Harnett.	500	6	73.4		96	17†	43	11	42	4.35		1.90	0	9	18	8	4	se.	J. A. Smith.		
Chapel Hill.	Orange.	500	54	74.4	- 1.2	94	17†	45	8	35	4.51	+ 0.77	1.68	0	7	16	11	3	sw.	Prof. A. H. Patterson.		
Charlotte.	Mecklenburg.	773	36	73.2	- 2.3	92	18	50	9	28	5.39	+ 0.93	3.16	0	10	7	12	11	sw.	U. S. Weather Bureau.		
Chimney Rock.	Rutherford.	1,150	2	70.4		94	17	45	9	36	4.75		0.91	0	8	19	8	3	w.	J. M. Flack.		
Durham (near).	Durham.	406	3								2.97		1.23	0	6					e.	J. C. Michie.	
Eagleton.	Northampton.	66	7	73.2		94	17	48	9†	34	5.96		2.52	0	11	12	14	4	sw.	J. T. Elliott.		
Edenton.	Chowan.	30	18	74.2	- 0.5	97	17	46	11	35	7.20	+ 3.02	2.00	0	9	12	7	11	s.	F. R. Conger.		
Elizabeth City.	Pasquotank.	8		73.6		96	19	47	11	36	4.00		1.00	0	7	13	4	13	ne.	W. J. Simmons.		
Elizabethtown.	Bladen.	60	1								8.81		2.67	0	9					e.	J. W. Hall, Jr.	
Enfield (near).	Halifax.	99	1								5.18		2.52	0	9					e.	T. S. Inborden.	
Fayetteville.	Cumberland.	170	25	75.2	- 1.0	98	18	50	9	35	6.06	+ 1.80	2.15	0	11	17	5	8	s.	Frank Glover.		
Globe (near).	Caldwell.	1,800	68.8								1.07		0.07	0	9	15	5	10	s.	Julius L. Gragg.		
Goldsboro.	Wayne.	102	42	73.4	- 3.5	95	17†	49	9	35	7.25	+ 1.99	1.94	0	10					s.	Mrs. N. B. Taylor.	
Gorge (near).	Caldwell.	1,358	67.8								1.55		0.55	0	14	7	20	3	sw.	A. J. Bagley.		
Graham.	Alamance.	656	10								4.43	- 0.86	1.50	0	8					e.	Dr. W. R. Goley.	
Greensboro.	Guilford.	843	31	72.1	- 2.9	91	17†	47	9	28	3.09	- 2.18	3.25	0	13	15	8	7	sw.	A. H. Horry.		
Greenville.	Pitt.	75	19								5.56	+ 1.20	1.86	0	13					e.	R. M. Hearne.	
Hatteras.	Dare.	11	38	74.2	- 0.2	90	18	55	8	27	3.50	- 3.25	0	13	15	8	7	7	sw.	U. S. Weather Bureau.		
Henderson.	Vance.	508	19	72.7	- 1.5	92	17	46	9	35	2.95	- 0.41	1.11	0	12	13	24	3	sw.	Enoch Powell.		
Kings Mountain (near).	Gaston.	952		71.6		98	18	47	9†	37	4.86		2.20	0	8	7	20	3	w.	Rev. C. J. Strang.		
Kinston.	Lenoir.	46	14	76.0	- 0.4	98	19	47	11	36	9.44	+ 5.24	2.90	0	13	12	9	9	e.	H. C. V. Peebles.		
Lenoir.	Caldwell.	1,186	39	71.4	- 0.1	95	17	42	10	45	6.45	+ 2.22	1.18	0	11	20	1	9	e.	G. M. Goforth.		
Lincolnton.	Lincoln.	994	7	71.0		94	18	44	9†	40	4.67		2.25	0	12	0	28	2	sw.	S. P. Houser.		
Louisburg.	Franklin.	375	21	74.2	- 0.8	95	17	46	9	35	3.42	- 0.67	0.90	0	8	18	5	7	sw.	T. B. Wilder.		
Lumberton.	Robeson.	102	29	75.4	- 1.8	97	18	49	10†	35	6.14	+ 0.83	1.93	0	12					e.	B. M. Davis.	
Manteo.	Dare.	12	7	74.2		94	18	55	8	23	5.33		2.18	0	7	17	2	11	ne.	U. S. Weather Bureau.		
Marion.	McDowell.	1,425	20	69.8	- 2.5	94	17	44	9†	35	5.62	- 0.45	1.02	0	16	13	13	4	w.	Sgt. Thomas McGuire.		
Middletown.	Hyde.	4	1	75.4b		93	18	50	9	25	5.83		1.60	0	12					e.	J. S. Mann.	
Moneure.	Chatham.	145	18	73.4	- 1.9	96	18	45	10	37	4.82	+ 0.63	2.05	0	7	8	12	10	sw.	B. J. Utley.		
Monroe.	Union.	586	18	72.7	- 1.9	94	18	45	10†	35	7.97	+ 2.86	2.62	0	8	15	9	6	sw.	T. A. Ashcraft.		
Morganton.	Burke.	1,135	25	71.2	- 1.7	94	17	44	9†	39	3.40	- 1.94	0.85	0	14	21	6	3	se.	J. B. P. Massey.		
Mount Airy.	Surry.	1,048	24	71.3	- 0.4	94	17†	41	9	42	3.33	- 1.50	0.85	0	11	16	11	3	w.	Prof. A. H. Merritt.		
Mount Holly.	Gaston.	616	15								5.23	- 0.03	2.30	0	8					e.	J. W. Holland.	
Nashville.	Nash.	190	8	73.3		97	18	47	11	35	5.73		1.52	0	10	8	14	8	s.	J. B. Boddie.		
Neuse.		266									6.26		1.69	0	9					e.	Gaston H. Mooneyham.	
Newbern.	Craven.	12	30																			

MONTHLY WEATHER REVIEW.

JUNE, 1912

TABLE 1.—*Climatological data for June, 1912. District No. 2—Continued.*

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.								Precipitation, in inches.								Sky.	Prevailing wind direction.	Observers.
				Mean.	Departure from the normal.		Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of days of clouds.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days.	Number of clear days.	Number of partly cloudy days.	Number of days of clouds.				
<i>South Carolina.</i>																						
Aiken	Aiken	565	27	76.4	-2.3	97	18	55	8	30	5.80	+ 1.65	1.80	0	4	18	7	5	se.	C. E. Carman.		
Allendale	Barnwell	186	23	77.6 ^d	-1.8	99	17	54	8	27	7.38	+ 2.08	1.30	0	10	15	0	15	.....	Richard Hiers.	
Anderson	Anderson	764	10	74.5	-1.5	93	18	52	9	34	8.06	+ 2.38	4.21	0	12	15	1	14	e.	H. H. Russell.		
Batesburg	Lexington	656	23	74.6	-3.4	94	18 ^t	54	8	30	5.45	+ 0.48	1.49	0	10	13	11	6	n.	E. J. Hite.		
Beaufort	Beaufort	20	25	75.8	-4.0	94	18 ^t	58	9	22	5.63	+ 0.59	3.06	0	4	11	13	6	sw.	Miss Lillian H. Rice.		
Blackville	Barnwell	296	22	77.6	-2.1	101	18	53	9	35	5.54	-0.25	3.00	0	15	7	13	10	s.	Miss M. E. Lange.		
Blair	Fairfield	293	6	76.6	-2.1	101	18	53	9	35	3.89	-0.93	1.93	0	10	10	8	12	w.	John R. Ragsdale.		
Bowman	Orangeburg	160	10	76.2	-1.8	99	18	55	9	33	5.98	+ 0.75	2.08	0	8	13	15	5	w.	B. O. Evans.		
Broxton	Hampton	1	1	76.6	-1.8	99	18	55	9	33	4.56	-0.99	2.10	0	4	18	7	5	.....	Thomas D. Williams.	
Calhoun Falls	Abbeville	508	18	76.6	-1.8	97	18	54	9	36	6.99	+ 2.16	2.09	0	11	5	12	13	s.	L. M. Parker.		
Camden	Kershaw	222	45	76.6	-4.4	89	18	54	9	36	7.39	+ 3.10	2.58	0	8	14	7	9	ne.	W. C. Brown.		
Catawba	York	562	6	75.6	-2.6	96	17	54	9	29	5.77	-0.72	2.42	0	9	11	9	10	s.	James C. Faris.		
Chappells	Newberry	402	6	78.1 ^t	+ 1.9	100	18	53	10 ^t	42	6.07	+ 1.07	1.90	0	7	16	2	12	sw.	W. R. Zimmerman.		
Charleston	Charleston	48	41	77.6	-0.9	98	18	59	9	21	6.89	+ 1.50	5.95	0	6	7	11	12	s.	U. S. Weather Bureau.		
Cheraw	Chesterfield	144	23	74.6	-2.8	95	18	50	11	35	4.38	-1.04	1.27	0	0	11	7	12	w.	J. H. Powe.		
Clemson College	Oconee	850	20	71.6	-4.4	89	18	58	12	31	8.92	+ 4.58	2.63	0	13	23	4	3	w.	Prof. John N. Hook.		
Columbia	Richland	351	25	75.6	-2.6	96	17	54	9	29	5.54	+ 1.36	2.20	0	10	6	10	14	sw.	U. S. Weather Bureau.		
Conway	Horry	25	19	78.1 ^t	+ 1.9	100	18	53	10 ^t	42	6.07	+ 1.07	1.90	0	7	17	0	13	s.	Paul Quattlebaum.		
Dillon	Dillon	100	7	75.6	-1.8	98	17	53	9	33	7.52	+ 2.00	3.25	0	13	13	2	12	s.	A. E. Rowell.		
Edisto	Bamberg	127	24	74.6	-2.7	97	18	51	9	33	6.23	-0.63	1.09	0	8	13	6	11	nw.	Nathan Jenkins.		
Effingham	Florence	106	19	76.6	-0.2	100	18	54	9	32	6.92	+ 1.23	2.25	0	7	17	1	12	sw.	H. B. McCall.		
Ferguson	Berkeley	51	3	76.6 ^d	-0.2	100	18	54	9	32	3.10	-0.13	3.10	0	8	13	6	11	s.	Dr. J. R. Des Portes.		
Florence	Florence	136	23	75.6 ^d	-3.0	101	18	52	9	33	5.05	-0.19	1.92	0	7	13	4	13	sw.	H. K. Gilbert.		
Georgetown	Georgetown	12	18	77.3	-1.3	98	18 ^t	57	7	22	2.44	-3.04	2.00	0	6	1	25	4	e.	A. P. Hazard.		
Greenville	Greenville	989	19	72.4	-0.8	92	18 ^t	48	9 ^t	36	5.58	+ 1.20	2.70	0	12	2	8	s.	Spartan Goodlette.			
Greenwood	Greenwood	671	23	73.7	-4.2	92	18 ^t	51	9	32	7.24	+ 2.61	1.66	0	8	16	0	14	w.	M. M. Calhoun.		
Heath Springs	Lancaster	568	10	73.3	-0.1	95	18	48	9	34	5.60	-0.63	1.80	0	7	3	16	11	s.	Charles Bowers.		
Kingstree	Williamsburg	54	23	76.6	-1.5	99	18 ^t	53	9	34	4.70	-0.63	1.74	0	7	19	2	9	ne.	A. O. Matthews.		
Liberty	Pickens	900	17	73.8	-2.6	92	18 ^t	49	12	36	6.11	+ 1.29	2.30	0	14	13	15	2	e.	John T. Boggs.		
Little Mountain	Newberry	711	18	75.3	-2.7	95	18 ^t	53	9	31	5.06	+ 0.54	1.57	0	9	18	6	6	s.	J. M. Sease, M. D.		
Meriwether	Edgefield	2	24	74.7	-2.7	94	17	52	9	34	7.63	-0.55	1.95	0	10	4	12	14	e.	William S. Middleton.		
Monetta	Aiken	502	7	75.0	-2.7	97	18	51	9	35	4.60	+ 0.12	1.65	0	10	3	15	12	w.	Joe M. Johnson.		
Newberry	Newberry	873	6	76.6	-2.7	95	18	53	9	31	6.13	-0.55	1.28	0	13	9	11	10	s.	W. G. Peterson.		
Pineopolis	Berkeley	55	18	75.4	-2.7	95	18 ^t	53	9	34	4.70	-0.63	1.74	0	9	17	0	13	ne.	J. M. Ward.		
St. George	Dorchester	109	23	99	-17	97	18	55	9 ^t	30	3.23	-2.08	1.60	0	5	23	0	7	.....	Miss E. P. Ravenel.	
St. Matthews	Calhoun	209	23	75.3	-2.5	95	18 ^t	55	9 ^t	30	3.65	-2.48	1.55	0	7	22	0	8	e.	G. F. Lewis.		
Saluda	Saluda	530	9	76.6	-1.6	96	18	51	10	26	4.38	-0.65	1.55	0	9	14	13	3	w.	J. S. Wannamaker.		
Santuc	Union	572	16	75.4	-0.9	98	18 ^t	50	9 ^t	42	5.30	+ 1.09	2.20	0	8	16	8	6	s.	Mrs. F. V. J. Maxwell.		
Smiths Mills	Williamsburg	62	16	99	-4.0	97	17	52	8 ^t	33	3.72	-0.78	2.20	0	7	19	1	10	e.	E. W. Jeter.		
Society Hill	Darlington	75	14	74.7	-2.5	95	17	51	8	25	4.46	-2.30	2.10	0	6	14	5	11	s.	W. G. Walker.		
Spartanburg	Spartanburg	875	20	73.2	-3.6	94	18 ^t	49	11	37	6.64	+ 1.49	3.40	0	11	10	1	19	.....	Mal. J. Lucas.	
Summerville	Dorchester	75	14	77.6	+ 0.8	100	18	56	9	31	8.24	+ 3.64	3.92	0	9	8	21	1	sw.	F. P. Robinson.		
Trenton	Edgefield	620	18	74.6	-3.8	94	18	53	9	29	4.08	-0.52	0.97	0	12	8	19	5	s.	Miss E. H. Gadson.		
Walterboro	Colleton	69	7	78.4	-3.1	101	18 ^t	56	9	33	3.65	-0.55	1.50	0	11	19	6	5	w.	C. A. Long.		
Winsboro	Fairfield	545	21	73.6	-3.1	95	18	52	7	28	2.55	-2.04	1.20	0	7	15	13	2	se.	B. Levy.		
Winthrop College	York	690	12	74.7	-0.9	94	18 ^t	50	10	30	5.37	-0.56	2.20	0	9	20	4	6	sw.	J. W. Seigler.		
Yemassee	Hampton	23	16	77.1	-2.1	99	18	56	9	29	5.01	-1.21	1.51	0	8	15	1	14	s.	E. R. Rivers.		
<i>Georgia.</i>																						
Abbeville	Wilcox	180	9	73.4	-2.5	90	18	51	12	36	4.89	+ 0.50	0.80	0	10	9	3	18	w.	W. H. Calhoun.		
Adairsville	Bartow	772	20	78.6	-2.8	97	4 ^t	61	8 ^t	26	6.50	+ 2.27	1.56	0	5	13	1	16	sw.	Mrs. R. C. Evans.		
Albany	Dougherty	232	25	78.6	-2.8	95	18	59	8	28	3.95	+ 1.15	0.97	0	10	5	15	5	s.	George C. Brosnan.		
Allapaha	Berrien	293	23	77.8	-1.6	98	18	59	9	28	3.92	-0.73	1.21	0	8	12	2	12	e.	J. F. Rice.		
Americus	Sumter	362	27	76.6	-4.0	95	17	52	8 ^t	33	3.72	-0.78	2.20	0	11	16	2	13	.....	C. W. Lamar.	
Athens	Clarke	694	30	73.8	-2.3	93	17	52	10	30	6.94	+ 2.37	2.20	0	11	16	2	13	e.	C. D. Cox.		
Atlanta	Fulton	1,218	47	72.8	-2.6	89	1	54	9	23	11.21	+ 7.22	3.93	0	12	7	10	13	ne.	U. S. Weather Bureau.		
Augusta	Richmond	180	66	75.8	-3.1	95	18	57	9	29	8.43	+ 3.94	2.35	0	12	6	12	13	w.	Do.		
Bainbridge	Deatur	119	20	78.5	-2.0	99	1 ^t	62	9 ^t	29	3.25	-1.47	1.22	0	11	13	3	14	sw.	Mrs. C. O. Wimberley.		
Barnesville	Pike	875	3	74.8 ^t	-	96	16	54	9	26	7.56	-0.55	2.98	0	10	6	14	15	w.	C. W. Mobley.		
Butler	Taylor	650	11	74.6	-2.4	96	18	51	9	23	10.32	+ 6.11	4.00	0	11	17	1	12	.....	Mrs. F. Wallace.	
Camak	Warren	613	20	75.4	-2.4	96	18	53	9	30	7.44	+ 2.97	2.80	0	10	10	3	17	e.	J. A. Chapman.		
Carlton	Cherokee	894	21	74.9	-1.9	90	18															

TABLE 1.—Climatological data for June, 1912. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.						Precipitation, in inches.						Sky.	Prevailing wind direction.	Observers.	
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unmeasured.	Number of rainy days, 0.01 inch or more.	Number of partly cloudy days.	Number of cloudy days.		
Georgia—Continued.																			
Montezuma.	Macon.	292	7	74.8	-3.5	92	2	53	9	29	8.06	+3.54	2.02	0	13	13	4	13	ne.
Monticello.	Jasper.	800	17	74.8	-3.6	93	3	54	8	28	9.41	+4.87	2.87	0	12	18	0	12	.....
Newnan.	Coweta.	959	23	73.8	-	.....	.....	.....	.....	.....	.....	.....	2.12	0	11	14	3	13	sw.
Norcross.	Gwinnett.	1,078	2	.....	.....	.....	.....	53	9	28	11.52	-	4.46	0	11	12	8	10	.....
Point Peter.	Oglethorpe.	600	23	.....	.....	.....	.....	60	8	29	6.46	+1.99	1.70	0	16	8	19	3	s.
Poulan.	Worth.	365	21	77.4	-1.4	94	1†	54	32	3.94	-0.13	1.00	0	0	8	5	18	7	ne.
Putnam.	Marion.	12	75.3	-3.7	93	1	54	32	21	9.62	+3.18	2.69	0	15	15	4	11	ne.	
Quitman.	Brooks.	173	26	77.0	-2.9	95	18	58	10	28	4.39	-0.52	1.32	0	10	12	9	9	sw.
Ramhurst.	Murray.	19	70.9	-0.4	85	17	52	11†	28	3.14	-1.51	0.87	0	6	14	3	13	se.	
Resaca.	Gordon.	657	18	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	0	16	10	10	10	sw.
Rome.	Floyd.	576	53	75.0	-1.2	93	3	50	11	35	2.44	-1.62	1.55	0	7	15	6	9	e.
St. George.	Charlton.	5	77.8	-	95	18	61	9	23	11.11	-	2.90	0	18	3	17	10	ne.	
St. Marys.	Camden.	20	21	77.8	-1.3	100	18	63	8	25	7.21	+1.45	1.37	0	16	10	10	10	w.
Savannah.	Chattham.	(6) 61	77.9	-1.3	97	18	60	19	9.4	-0.45	3.11	-	0	11	6	9	15	Dr. E. L. Bardwell.	
Statesboro.	Bulloch.	253	12	79.7	+0.6	102	18	58	8†	31	4.48	-2.22	1.56	0	5	8	18	4	W. C. Cromley.
Talbotton.	Talbot.	750	18	75.4	-2.4	96	1	56	8†	26	7.45	+3.88	2.00	0	15	16	2	12	Victor L. Howe.
Tallapoosa.	Haralson.	1,150	13	73.2	-2.8	91	1†	52	10	32	5.22	+1.23	2.30	0	11	12	0	12	U. S. Weather Bureau.
Thomasville.	Thomas.	273	30	77.5	-2.1	97	18	60	9	27	6.61	+1.06	2.16	0	19	2	15	13	ne.
Toccoa.	Stephens.	1,050	26	72.2	-3.0	91	17	51	12	34	7.76	+3.22	2.55	0	10	17	7	6	Mrs. Alice N. Starke.
Valdosta.	Lowndes.	220	7	78.4	-	100	4	58	10	30	11.00	-	3.00	0	12	13	1	16	Miss Annie Twitty.
Valona.	McIntosh.	10	14	78.8	0.0	99	16	60	8	25	3.63	-1.55	2.00	0	8	8	7	6	G. E. Atwood.
Washington.	Wilkes.	630	21	74.7	-3.1	94	18	53	9	28	7.32	+2.84	2.80	0	9	16	4	10	Miss Ella B. Smith.
Waycross.	Ware.	131	23	78.6	-1.7	98	18	60	9	24	6.43	+0.58	3.53	0	12	20	1	9	Thomas Sasser.
Waynesboro.	Burke.	86	20	75.8	-2.3	98	17†	52	9	37	6.70	+1.74	3.30	0	7	8	10	12	Mrs. H. W. Blount.
West Point.	Troup.	620	22	76.0	-3.3	95	1†	57	9	30	8.75	+4.24	2.45	0	11	.....	.....	.....	E. N. Dunn.
Woodbury.	Meriwether.	641	9	.....	.....	.....	.....	.....	.....	6.84	+2.74	1.89	0	11	15	9	6	E. T. Riggins.	
Florida.																			
Apalachicola.	Franklin.	24	8	79.0	-	92	18†	63	9	22	9.40	-	4.90	0	5	11	14	5	s.
Arcadia.	De Soto.	61	11	80.9	+0.1	96	17	70	2†	23	16.49	+9.09	2.81	0	27	8	17	5	e.
Archer.	Alachua.	92	27	85.0	-2.6	95	17†	65	8†	23	16.91	+7.53	2.55	0	25	6	16	8	se.
Avon Park.	De Soto.	150	13	78.6	-1.4	94	19	67	7	23	16.91	+7.53	3.44	0	23	5	6	19	se.
Bartow.	Polk.	115	24	78.8	-1.7	96	19	67	1†	27	21.62	+13.65	2.10	0	3	2	24	4	se.
Blountstown.	Calhoun.	3	78.6	-	95	1†	60	2†	34	4.15	-	2.10	0	15	17	9	4	sw.	
Bradenton.	Manatee.	10	28	78.6	-1.5	91	16†	67	23	22	25.62	+17.70	3.86	0	12	18	9	9	sw.
Brooksville.	Hernando.	126	19	79.1	-0.9	96	17	68	1†	27	13.94	+5.35	1.94	0	18	12	9	9	w.
Carabelle.	Franklin.	10	13	78.6	-1.4	95	19	64	8†	24	9.10	+4.21	2.60	0	7	14	8	8	s.
Cedar Key.	Levy.	10	23	79.8	-0.5	93	20	66	9	18	8.73	+2.93	2.34	0	16	12	0	18	ne.
Lake.	Clermont.	105	19	80.8	-0.6	100	18†	68	3†	26	15.22	+2.82	6.10	0	14	4	19	7	e.
Crescent City.	Putnam.	14	79.8	-0.3	99	16†	67	14†	32	10.05	+3.96	3.57	0	15	9	14	7	se.	
De Funiak Springs.	Walton.	193	14	78.6	-0.5	101	23	57	10	38	3.22	-2.69	0.82	0	9	7	11	12	s.
De Land.	Volusia.	27	15	79.0	+0.1	100	18†	66	1	29	14.49	-	3.26	0	22	6	14	10	se.
Eustis.	Lake.	56	21	79.8	-0.9	98	18	67	3†	28	14.15	+7.69	2.90	0	17	21	1	8	s.
Federal Point.	Putnam.	5	20	78.9	+0.1	98	18	65	13	25	12.28	+6.07	2.67	0	22	5	20	5	se.
Fenholloway.	Taylor.	75	5	78.0	-	95	17†	62	8†	27	10.85	-	3.80	0	11	0	23	7	sw.
Fernandina.	Nassau.	10	19	77.4	-1.5	95	19	64	9	19	5.13	+0.09	0.86	0	18	4	20	6	.....
Fort Meade.	Polk.	125	23	79.4	+0.2	98	17	67	1	28	22.70	+13.30	4.00	0	21	6	12	12	se.
Fort Myers.	Lee.	12	40	79.0	-1.0	92	16†	68	21	19	-	2.69	0.82	0	9	7	11	12	se.
Fort Pierce.	St. Lucie.	6	11	79.8	+1.1	95	15†	70	2†	21	10.20	+2.12	1.50	0	14	15	8	7	e.
Gainesville.	Alachua.	176	18	77.8	-3.1	96	17†	64	11†	25	11.63	+4.73	1.95	0	19	6	13	11	sw.
Grasmere.	Orange.	175	14	79.0	-1.9	98	18	66	13	25	9.50	-	2.32	0	16	16	5	9	.....
Hilliard.	Nassau.	69	3	77.9	-	96	18	61	8	25	5.44	-	0.98	0	12	9	10	11	b.
Homestead.	Dade.	5	2	80.5	-	95	15	65	19	28	8.04	-	1.50	0	19	14	6	10	s.
Hypoluxo.	Palm Beach.	9	16	81.2	+2.0	97	20	68	11†	23	25.19	+16.35	8.42	0	15	10	7	13	G. A. Angevine.
Inverness.	Citrus.	43	12	81.6	+2.1	95	18	67	29	22	7.16	+0.48	1.10	0	16	2	12	16	sw.
Jacksonville.	Duval.	101	41	78.2	-0.8	95	18	64	8	24	9.62	+4.09	3.04	0	16	2	12	16	sw.
Jasper.	Hamilton.	152	11	77.1	-1.8	95	17†	58	8	24	13.35	+6.41	3.00	0	13	7	16	7	w.
Johnstown.	Bradford.	125	12	78.5	-1.2	97	17†	58	11	25	11.87	+5.02	2.73	0	17	8	15	7	sw.
Key West.	Monroe.	14	41	81.2	-1.0	90	19	70	5	16	9.04	+4.79	3.71	0	14	7	11	12	se.
Kissiminee.	Osceola.	65	19	80.4	+0.2	98	17	69	1†	24	11.90	+4.77	1.73	0	18	1	17	12	sw.
Lake City.	Columbia.	210	27	77.1	-2.8	96	18	60	9	23	9.05	+2.03	2.00	0	18	3	9	18	se.
Live Oak.	Suwancee.	109	12	78.0	-	97	18	60	20	30	-	-	-	0	13	10	9	11	.....
Macclellony.	Baker.	125	15	77.5	-2.1	96	18	62	8†	27	7.64	+1.76	2.90	0	13	11	15	4	se.
Madison.	Madison.	200	12	78.2	-2.0	97	18	61	9†	25	10.97	+5.50	2.83	0	17	10	3	17	F. Nordman.
Malabar.	Brevard.	24	18	79.9	+0.2	98	15†	67	13	26	10.20	+4.64	1.56	0	19	14	11	5	F. K. Armstrong.
Marianna.	Jackson.	80	9	78.2	-1.1	97	1†	58	10	30	3.99	-	0.94	0	10	16	3	11	J. C. Caldwell.
Merrits Island.	Brevard.	20	29	78.1	-1.5	90	17	60	1†	16	7.61	+0.82	1.99	0	16	0	25	5	se.
Miami.	Dade.	47	10	80.4	0.0	91	19	69	2†	18	14.63	+6.74	2.64	0	17	2	11	17	se.
Middleburg.	Clay.	10	11	77.6	-1.4	97	18	64	13	25	13.79	+6.41	2.00	0	19	20	3	7	F. Trask.
Molino.	Escambia.	49	10	75.2	-3.7	96	17†</td												

TABLE 1.—Climatological data for June, 1912. District No. 2—Continued.

Stations.	Counties.	Elevation, feet.	Length of record, years.	Temperature, in degrees Fahrenheit.							Precipitation, in inches.				Sky.	Prevailing wind direction.	Observers.			
				Mean.	Departure from the normal.	Highest.	Date.	Lowest.	Date.	Greatest daily range.	Total.	Departure from the normal.	Greatest in 24 hours.	Total snowfall, unsettled.	Number of rainy days 0.01 inch or more.	Number of clear days.	Number of partly cloudy days.	Number of cloudy days.		
<i>Alabama.</i>																				
Alaga.	Houston.	105	7	74.0	-1.0	91	1	55	21	31	3.94	+1.75	2.02	0	8	4	17	9	James L. Willis.	
Anniston	Calhoun	728	21	74.0	-3.5	93	1	53	10	34	5.63	+1.12	2.56	0	13	10	14	13	e. U. S. Weather Bureau.	
Ashville.	St. Clair.	685	19	74.0	-3.5	93	1	53	10	34	5.34	+1.12	1.13	0	10	14	13	3	George R. Cather.	
Auburn.	Lee.	732	30	76.4	-1.4	97	1	57	...	31	7.08	+2.78	1.64	0	16	1	18	11	Dr. James T. Anderson.	
Benton.	Lowndes.	149	11	75.2	-2.6	93	23	59	23	34	3.27	+0.53	0.94	0	7	7	18	5	S. T. Pruitt.	
Bermuda.	Conecuh.	25	24	75.2	-2.6	93	23	59	23	34	5.61	+1.42	1.07	0	12	7	18	5	M. J. Morris.	
Birmingham.	Jefferson.	701	24	73.7	-4.2	92	1	58	8	26	6.18	+2.30	2.28	0	12	6	15	9	U. S. Weather Bureau.	
Calera.	Shelby.	500	11	74.6	-3.3	95	1	53	13	33	6.39	+1.78	2.60	0	10	10	10	sw.	L. G. Privett.	
Camp Hill.	Tallapoosa.	738	11	74.6	-3.3	95	1	53	13	33	4.99	+1.06	1.20	0	10	0	8	22	sw.	Dr. Lyman Ward.
Cedar Bluff.	Cherokee.	594	8	74.0	-3.2	93	2†	62	10†	25	4.37	+1.07	1.27	0	7	4	23	3	Joe L. Daniel.	
Citronelle.	Mobile.	331	24	76.4	-3.2	93	2†	62	10†	25	5.37	+0.02	1.64	0	12	5	15	10	Rev. W. H. Rowe.	
Clanton.	Chilton.	590	19	75.6	-1.8	98	1	57	21†	35	5.93	+2.46	3.50	0	13	...	...	Joseph B. Downs.		
Cochrane.	Frickens.	100	2	73.9	-2.8	92	2	49	9	32	7.94	...	2.00	0	13	...	...	T. H. G. Cook.		
Cordova.	Walker.	334	21	73.9	-2.8	92	2	49	9	32	5.10	+0.36	1.10	0	11	14	7	n.w.	Scott Maxwell.	
Cullman.	Cullinan.	802	4	71.6	...	91	2	54	10†	34	5.16	...	1.66	0	12	10	13	7	sw.	Eugene A. Grayot.
Dadeville.	Tallapoosa.	760	7	76.6	-3.3	92	4	62	10	22	7.15	...	2.50	0	10	...	...	Dr. W. B. Fulton.		
Daphne.	Baldwin.	21	...	76.6	-3.3	92	4	62	10	22	4.84	+0.58	2.20	0	8	...	...	John H. Young.		
Demopolis.	Marengo.	20	...	74.4	-4.5	94	1†	57	8†	32	4.64	+0.52	2.54	0	9	18	3	9	sw.	George E. Pegram.
Eufaula.	Barbour.	200	28	74.4	-4.5	94	1†	57	8†	32	5.18	+1.54	1.40	0	13	...	...	Dr. J. B. Whitlock.		
Evergreen.	Conecuh.	285	28	79.0	+0.4	100	2†	61	11†	33	3.40	-2.03	1.90	0	6	...	...	Donnie W. Barnes.		
Flomaton.	Escambia.	91	20	76.2	-3.2	96	17†	56	10†	29	3.66	-0.65	0.70	0	11	...	...	T. J. Harris.		
Fort Deposit.	Lowndes.	520	28	76.2	-3.2	96	17†	56	10†	29	5.70	+1.24	1.37	0	10	...	...	J. F. Hattemer.		
Gadsden.	Etowah.	621	28	74.6	-1.9	91	1†	56	21	28	4.22	-0.56	2.00	0	8	...	...	D. P. Goodhue.		
Goodwater.	Coosa.	826	17	74.1	-3.8	95	1†	55	21	36	6.93	+2.98	3.25	0	10	...	...	Miss Daisy Buice.		
Greensboro.	Hale.	220	33	76.1	-2.3	92	17	61	8†	27	6.38	+2.53	2.40	0	9	...	...	W. E. W. Verby.		
Greenville.	Butler.	444	11	77.3	-4.4	90	6†	51	20	33	4.64	+0.06	1.59	0	8	...	...	E. M. Lewis.		
Hamilton.	Marion.	16	...	72.3	-4.4	90	6†	51	20	33	7.21	+3.35	1.75	0	15	12	5	13	sw.	Prof. H. O. Sargent.
Healing Springs.	Washington.	362	...	77.0	-2.1	92	18	63	10	28	6.77	...	1.54	0	13	...	...	Prof. Samuel Jordan.		
Highland Home.	Crenshaw.	20	...	76.2	-2.2	93	1	61	9	25	6.60	+2.16	2.16	0	10	8	12	10	e.	James E. Lipscomb.
Livingston.	Sumter.	160	28	75.4	-3.6	92	16†	59	8	22	4.22	-0.56	2.00	0	8	...	...	Robert L. King.		
Lock No. 4.	Talladega.	510	15	75.4	-2.0	94	1†	56	21	32	4.98	+1.05	2.68	0	8	...	...	U. S. Engineers.		
Maple Grove.	Cherokee.	19	75.0	-1.2	94	1	55	20	31	5.63	+1.68	1.26	0	9	9	16	5	sw.	Mrs. A. L. Awbrey.	
Mentone.	Dekalb.	1,595	5	...	...	...	...	...	...	...	3.77	...	1.20	0	4	...	...	E. Mason.		
Milstead.	Macon.	84	...	77.0	-2.1	92	18	63	10	28	3.95	...	1.10	0	10	...	...	W. U. Wall.		
Mobile.	Mobile.	240	40	76.0	-3.1	94	1	60	9	26	6.79	+2.58	1.59	0	13	4	11	5	sw.	U. S. Weather Bureau.
Newbern.	Hale.	20	76.6	-2.6	96	17	59	22	31	5.29	+1.25	2.55	0	13	3	23	4	s.	Do.	
Oneonta.	Blount.	857	18	75.6	0.0	95	1	55	21	31	5.57	+0.71	2.00	0	13	15	1	14	Dr. J. Huggins.	
Opelika.	Lee.	817	33	73.9	-4.6	92	16	56	8	22	4.98	+0.80	1.58	0	10	...	...	Agilla K. Ketchum.		
Ozark.	Dale.	400	10	76.8	...	96	16	59	11	27	6.25	...	2.75	0	7	...	...	A. H. Read, Jr.		
Prattville.	Autauga.	281	12	75.3	-2.7	94	1	57	21	31	5.71	...	1.29	0	11	7	18	5	...	Miss Lucy Sellers.
Pushmataha.	Choctaw.	21	74.6	-4.3	90	...	58	10	27	6.57	+1.85	2.86	0	12	1	16	13	s.	Joseph B. Bell.	
Robertsdale.	Baldwin.	148	...	...	...	...	...	...	...	...	2.38	...	0.82	0	...	...	...	W. N. Horn.		
Selma.	Dallas.	32	77.3	-1.3	95	2†	60	21†	33	45.	4.57	+0.41	1.75	0	10	...	...	Carl Bosen.		
Spring Hill.	Mobile.	312	8	76.8	...	94	18	62	10	33	3.27	...	0.91	0	10	11	13	6	sw.	Charles F. Brisbin.
Talladega.	Talladega.	554	22	75.4	-2.8	94	1	52	21	33	4.52	+0.66	2.03	0	10	11	13	6	sw.	Spring Hill College.
Tallassee.	Elmore.	21	...	...	...	...	...	...	...	...	5.07	+0.87	1.64	0	13	...	...	W. E. Henkel.		
Thomasville.	Clarke.	385	21	74.6	-4.9	94	1	51	11	30	6.27	+1.65	1.48	0	14	...	...	P. A. Noble.		
Troy.	Pike.	581	4	76.8	...	96	1†	60	10	27	5.12	...	2.00	0	11	0	24	6	sw.	Miss Hattie T. Forster.
Tuscaloosa.	Tuscaloosa.	230	31	76.0	-2.8	95	18	57	10†	32	4.82	+0.34	1.67	0	9	13	1	16	ne.	Frank L. Zimmerman.
Tuskogee.	Macon.	12	76.6	-2.5	100	2	58	8	36	3.35	-0.22	1.03	0	8	0	26	4	n.	W. S. Wyman.	
Union Springs.	Bullock.	216	25	76.4	-3.8	93	1	60	9	27	5.73	...	1.90	0	12	...	...	Prof. George W. Carver.		
Untiontown.	Perry.	273	26	77.0	-2.4	96	1†	59	9	30	3.79	-0.16	1.15	0	7	3	15	12	nw.	P. L. Cowan.
Valley Head.	Dekub.	1,031	27	73.4	-0.9	92	1†	51	21	34	3.78	-1.24	0.80	0	7	19	6	5	s.	L. H. Moore.
Wetumpka.	Elmore.	205	20	77.5	-2.5	98	1†	56	10	34	5.52	+2.01	1.87	0	8	14	0	16	n.	M. T. Floyd, M. D.
<i>Mississippi.</i>																		U. S. Engineers.		
Aberdeen.	Monroe.	210	24	74.0	-4.1	93	1†	55	8†	30	5.31	+0.70	1.35	0	13	9	6	15	s.	L. D. Godfrey, jr.
Agricultural College.	Oktibbeha.	424	22	74.2	-4.3	93	16†	56	8†	31	6.87	+2.90	1.60	0	14	3	20	7	...	J. R. Ricks.
Bay St. Louis.	Hancock.	28	19	77.5	-3.0	91	23	62	26	26	4.14	...	1.16	0	14	10	9	11	e.	Brother Stanislaus.
Biloxi.	Harrison.	24	21	78.1	-2.5	94	22	65	10	28	2.55	-3.65	0.55	0	12	10	8	12	se.	Miss M. Josie Pope.
Boonehaven.	Prentiss.	504	18	73.0	-4.3	91	16†	53	8	29	4.22	+0.11	0.91	0	11	5	25	0	s.	Dr. D. T. Price.
Brookhaven.	Lincoln.	500	24	75.7	-3.8	95	1	57	8	30	4.81	-0.28	2.60	0	15	6	5	19	e.	N. R. Drummond.
Columbia.	Marion.	110	8	...	...	...	...	...	...	...	8.38	...	2.17	0	15	9	5	16	...	J. W. Bee.
Columbus.	Lowndes.	191	24	74.8	-5.3	95	1†	56	10†	34	6.30	+2.33	2.12	0	12	9	7	14	ne.	N. R. Drummond.
Crystal Springs.	Copiah.	168	20	74.6	-4.6	95	1	57	8	30	13.54	+9.48	2.75	0	18	12	18	0	...	D. H. Miller.
Edinburg.	Leake.	4	74.7	...	94	16	56	10†	33	4.80	...	1.35	0	13	8	9	13	s.	J. Y. Blocker.	
Enterprise.	Clarke.	248	7	...	...	...	...	...	...	...	4.97	...	2.05	0	14	6	6	18	...	J. B. Thompson.
Fulton.	Itawamba.	3	...	...	...	...	...	...	...	...	4.43	...	1.93	0	10	8	16	6	s.	A. L. Summers.
Hattiesburg.	Forest.	189	19	76.1	-4.7	98	1†	60	26	33	3.12	-2.24	1.16	0	16	6	10	4	16	s.

TABLE 2.—*Daily precipitation for June, 1912. District No. 2, South Atlantic and east Gulf States.*

TABLE 2.—*Daily precipitation for June, 1912. District No. 2—Continued.*

TABLE 2.—*Daily precipitation for June, 1912. District No. 2—Continued.*

Stations.	Watershed.	Day of month.																																		
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	Total.				
Georgia—Continued.																																				
Quitman ||	Suwanee.	.42	.85	.16		.58	.17	2.69	.73	.18	.25	.24			1.29									.30			.20	.60	.96		9.62					
Ramhurst.	Coosa.		.03		.76	.04									1.32	.51								.40	.93	.10	.20		.10	4.39						
Resaca ||	do.				.60	T.									.60	.67								.87			.10	T.		.30	3.14					
Rome ||	do.		T.		.12			.18							1.55	.11	.02							.37	.09	T.	T.	T.	2.44							
St. George ||	St. Marys.	.59	.15			.40	1.93	2.90	.29	.44	.92	.10	T.	.10	.05								.13	.20	.74	1.92	T.		.25	11.11						
St. Marys.	do.	.10	.29	T.		.06	.59	1.24	1.37	.45	.01	.03	.04	T.	T.	T.							.15	.23	.37	T.	.76	.02	.27	T.	.43	7.21				
Savannah.	Savannah.	.01			.17	1.51	1.13	2.17							T.	T.							.04	.02	.50	.34	T.			T.		.13	4.94			
Statesboro.	Ogeechee.		T.	T.	.60	1.56	1.24	.70	T.						T.	T.							T.										4.48			
Talbotton.	Chattahoochee.	.86	.14	.38	.02	1.60	1.00	.08								.15	.16	.30						.30	.39	.05	.20	2.00		.02	7.45					
Tallapoosa ||	Tallapoosa.		1.13	T.	.08	.43	.08																	T.										5.22		
Thomasville.	Ocklocknee.	.70	.16	T.	.46	.41	1.95	1.48	.09	.13	.37	.01			.57	.02	.01						T.	.61	.01	.01	.57	T.	.01	6.61						
Toccoa ||	Savannah.			.90		.10	.80																										11.00			
Valdosta ||	Suwanee.	1.50			2.00		.50	3.00	.40	.35	.30	.20																				3.63				
Valona.	Coast.					.08	2.00	.35		.10	.28	.02																					7.32			
Washington ||	Savannah.	1.20	.52			.24	2.90	.12																										6.43		
Waycross ||	Satilla.			.35	.33	.74	.30	.02	.02	.09	.01																						6.70			
Waynesboro ||	Savannah.	.20	.50			.20	3.30	1.40																									8.75			
West Point ||	Chattahoochee.	1.22			.52	1.66	.60	.14																										6.84		
Woodbury ||	Flint.		.24			.38	.05	1.89	.40																											
Florida.																																				
Apalachicola.	Coast.	.97	.05	.43	.12	10.3	.80	.35		.25																							9.40			
Arcadia.	Peace Creek.			.25	.46	1.54	2.31	2.32	2.81	.57	.05	.03	.01			.03	.06	.78	.02	.07			.77	.01	.07	.22	1.27	.30	.96	.01		16.19				
Avon Park.	Kissimmee.	.32	.03	.05	.43	.61	1.73	2.44	1.10	1.64	2.55	.10											.45	.08	.31	.29	.84	.25	.03	.15	.33	.34	.24	1.41	.12	1.25
Bartow.	Peace Creek.	.41	.34	.27			.80	1.83	1.10	3.44	2.02	1.56																						21.62		
Blountstown ||	Apalachicola.	2.20																																	4.15	
Bradenton.	Manatee.																																			25.62
Brooksville.	Withlacoochee.	.72	.43	.78																																13.94
Carabelle.	Coast.																																			9.10
Cedar Keys.	do.	.83	.02	.16		.23	.79	.41	1.90	.03	.70	.05																						8.73		
Clemont.	Lake.																																			15.42
Crescent City.	St. Johns.																																			10.05
De Funiak Springs.	Choctawhatchee.																																			3.22
De Land.	St. Johns.	.98	1.41	.18	.15	.09	1.86																											16.49		
Eustis.	Lake.	1.09	1.10	.22																															14.15	
Federal Point.	St. Johns.	T.	.71	.06	.26	0.06	1.40	.67	2.40	4.92	6.71	1.04	.06																			12.28				
Fenholway.	Fenholway.	.55																																		10.85
Fernandina ||	Coast.																																			5.13
Fort Meade.	Peace Creek.	.12	.27	.21	.04	1.39																													22.70	
Fort Pierce.	Indian.																																			10.20
Gainesville ||	Lake.	.45	.06																																	11.63
Grasmere.	do.	.32	.36	T.	.30	.18	.82	1.26	.46	2.32	.72	.99																				9.50				
Hilliard.	Nassau.	.30	.20																																5.44	
Hypoluxo.	Coast.	.15																																		8.04
Inverness ||	Withlacoochee.	1.10																																		25.19
Jacksonville.	St. Johns.	.95	T.	.42	T.	.83	1.12	1.08	.41	2.92	.54	.01	.39	T.																		7.16				
Jasper.	do.																																			9.62
Johnstown ||	do.																																			13.35
Key West.	Coast.																																			13.35
Kissimmee.	Kissimmee.	.32	.54	.08	.44	.37	.75	1.68	1.10	1.50	.78	1.73	T.																		7.64					
Lake City.	Suwanee.	T.	.33	.30	.18																														10.90	
Macclellany.	St. Marys.	.07																																		10.20
Madison ||	Suwanee.	.10																																		3.99
Malabar.	do.																																			12.77
Marianna ||	Apalachicola.	.31	.16	.75	.04	1.35	1.13	.33																									7.61			
Merritts Island.	do.																																			14.63
Miami.	Coast.																																			12.17
Middleburg.	do.																																			12.17
Molino.	Escambia.																																			4.09
New Smyrna ||	Coast.																																			3.30
Observation Island.	Caloosahatchee.	.65																																		12.52
Ocala.																																				8.75
Orange City.	do.																																			12.77
Pensacola.	Coast.																																			12.17
Pinellas Park.	do.																																			8.26
Plant City.	Hillsboro.					</td																														

TABLE 2.—*Daily precipitation for June, 1912. District No. 2—Continued.*

* Precipitation included in that of the next measurement.

* Precipitation included in that of the
† Separate dates of falls not recorded.

Precipitation for the 24 hours ending on the morning when it is measured.

T. Precipitation is less than 0.01 inch rain or melted snow

TABLE 3.—Maximum and minimum temperatures at selected stations, June, 1912. District No. 2, South Atlantic and east Gulf States.

Date.	Virginia.								North Carolina.												Charleston, S. C.							
	Lexington.		Lynchburg.		Norfolk.		Richmond.		Charlotte.		Edenton.		Fayetteville.		Hatteras.		Newbern. \$§		Raleigh.		Reidsville.		Salisbury.		Wilmington.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
1....	90	60	91	57	90	63	90	62	88	70	90	67	90	70	81	68	91	63	89	69	89	63	90	67	87	71	85	77
2....	91	62	91	68	89	71	91	70	89	69	91	72	92	72	82	72	89	67	90	69	92	68	91	62	85	73	85	76
3....	87	64	93	68	88	72	88	69	87	66	91	71	89	67	82	74	92	68	87	68	91	67	91	66	86	73	86	75
4....	86	63	83	70	82	70	85	70	85	66	87	70	86	73	82	71	89	67	82	70	89	70	90	66	86	73	85	76
5....	87	60	83	66	80	66	87	65	84	66	90	69	81	71	86	65	86	67	87	65	89	64	85	71	84	75		
6....	87	59	82	66	81	65	82	62	77	68	85	63	83	71	80	71	89	67	77	68	85	66	80	68	84	71	84	72
7....	74	58	67	57	67	60	67	57	69	55	73	55	72	55	76	60	72	66	69	54	68	58	70	51	75	59	75	
8....	68	47	69	52	66	57	68	54	69	55	70	50	70	52	68	55	75	49	69	55	70	51	73	51	69	53	69	60
9....	67	39	75	45	72	56	76	48	72	50	73	52	75	50	68	59	71	48	73	50	76	46	74	47	73	53	74	59
10....	78	38	75	47	71	58	76	52	75	53	75	48	79	52	71	62	77	49	76	55	79	51	79	48	74	56	74	65
11....	81	38	82	50	82	53	83	53	80	54	81	46	83	51	75	62	85	49	82	55	84	50	83	47	76	55	75	65
12....	84	39	88	53	81	58	85	56	83	56	82	54	85	52	77	63	84	51	83	58	89	52	86	50	79	58	79	66
13....	85	55	86	63	78	64	80	62	90	62	87	62	93	58	79	68	89	57	92	63	95	61	91	57	88	60	86	67
14....	71	50	69	56	69	61	67	59	76	61	73	65	80	61	80	69	77	63	76	60	84	59	80	62	80	65	89	73
15....	71	55	69	56	72	63	72	60	75	60	76	62	82	61	76	67	88	52	78	60	76	57	79	59	82	63	84	67
16....	90	58	90	60	90	64	91	65	86	69	93	65	92	71	82	68	91	59	90	69	90	65	90	67	92	73	93	76
17....	95	55	95	66	94	68	93	66	92	71	97	72	96	75	87	70	95	68	94	74	96	69	94	70	96	74	97	77
18....	89	54	88	70	89	70	91	70	92	70	96	73	98	74	90	73	95	71	94	71	96	70	94	67	93	76	98	77
19....	92	57	71	63	73	64	72	63	88	71	94	70	95	73	87	72	93	68	91	67	89	66	92	69	95	76	97	78
20....	91	56	79	62	78	65	80	62	79	66	74	63	81	70	75	69	82	67	79	67	83	63	83	64	87	72	89	72
21....	89	55	83	59	83	66	83	61	83	63	87	62	83	64	78	69	85	66	83	62	87	58	84	57	82	68	79	73
22....	91	57	84	64	84	68	85	62	85	64	85	65	88	64	77	69	89	65	86	67	89	62	89	59	77	68	82	73
23....	94	61	81	62	81	68	83	63	81	64	83	62	88	63	81	71	85	60	85	64	82	63	88	54	82	66	81	72
24....	94	62	80	63	81	68	82	60	83	63	85	65	84	65	81	70	85	64	81	66	86	61	81	78	67	87	79	72
25....	93	64	80	67	81	70	82	67	83	65	83	68	85	67	81	70	84	66	82	66	83	66	84	64	81	66	79	68
26....	93	67	83	64	82	69	83	66	86	69	83	70	80	68	80	72	76	66	79	69	81	67	84	67	76	69	79	68
27....	92	65	83	67	77	70	81	70	86	67	89	68	86	66	85	72	89	62	86	67	90	65	87	69	82	67	83	73
28....	91	68	84	67	84	72	85	69	82	66	89	69	86	67	83	74	90	64	86	66	87	65	86	65	88	69	85	75
29....	94	64	93	67	90	72	92	69	81	67	91	72	88	68	84	75	89	66	89	69	94	67	88	68	84	70	91	76
30....	84	60	87	66	83	66	82	65	87	69	89	70	91	71	87	72	91	67	89	69	94	68	90	70	90	70	91	76
Mns..	86.0	56.3	82.0	61.3	80.8	65.2	91.8	62.6	82.5	63.8	84.6	63.8	85.7	64.6	79.8	68.6	85.8	62.0	83.4	64.6	86.2	62.0	85.5	61.2	83.0	66.8	83.9	71.3

Date.	South Carolina.												Georgia.												Rome. \$§			
	Columbia.		Conway. \$§		Ferguson. \$§		Georgetown.		Greenville. \$§		Newberry.		Society Hill.		Albany. \$§		Atlanta.		Augusta.		Columbus. \$§		Dahlonega.		Macon.			
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.				
1....	92	71	95	72	89	71	88	74	90	61	89	70	88	71	96	71	89	70	90	70	97	70	88	59	88	70	91	61
2....	91	68	94	69	91	68	88	72	90	63	92	68	90	70	93	70	86	63	89	73	88	68	88	61	90	65		
3....	87	68	93	69	90	69	91	74	86	65	91	67	91	71	94	70	88	66	85	68	90	69	82	63	88	68	93	67
4....	87	69	89	72	88	69	92	73	87	66	89	70	83	67	97	72	80	67	86	70	87	70	82	64	84	70	87	67
5....	87	68	94	69	87	69	88	72	88	64	86	69	88	70	92	71	86	69	87	71	90	71	85	62	85	69	91	67
6....	79	69	93	69	85	70	88	74	80	64	79	70	82	64	82	70	78	68	83	71	93	63	88	64	90	69	96	69
7....	70	57	78	69	72	67	79	57	73	64	73	58	72	54	78	71	72	62	71	60	76	69	71	65	73	62	78	67
8....	73	56	76	65	72	56	69	62	75	54	72	54	72	51	76	71	74	57	74	59	79	61	71	55	73	58	80	62
9....	75	54	84	55	76	54	71	62	76	48	75	51	74	53	78	62	72	54	76	57	79	61	70	52	79	59	70	
10....	77	58	85	53	75	58	75	61	77	49	73	54	75	53	73	61	73	56	7									

TABLE 3.—Maximum and minimum temperatures at selected stations, June, 1912. District No. 2—Continued.

Date.	Georgia.						Florida.														Tallahassee. \$\$		Tampa.		Titusville.				
	Savannah.		Thomasville.		Waycross. \$\$		Avon Park.		Fort Myers.		Gainesville. \$\$		Jacksonville.		Key West.		Miami.		Orlando.		Pensacola.		Tallahassee. \$\$		Tampa.		Titusville.		
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.			
1.....	86	73	94	67	91	63	83	68	—	—	93	68	90	66	86	75	87	75	91	71	85	76	91	73	89	70	93	69	
2.....	89	71	89	63	91	67	87	70	—	—	93	68	84	69	86	78	86	77	89	69	84	68	92	67	85	71	94	71	
3.....	88	72	90	69	92	68	87	71	—	—	89	67	85	68	85	76	85	72	85	72	84	71	86	69	90	70	91	72	
4.....	88	73	93	70	93	70	89	71	—	—	90	71	86	74	86	73	81	76	80	71	85	76	87	71	90	70	92	74	
5.....	85	76	89	68	90	73	80	72	—	—	85	71	88	74	85	70	85	70	84	74	84	73	86	69	84	73	88	76	
6.....	84	71	78	71	87	74	83	80	70	86	73	87	71	82	71	83	74	84	73	85	74	75	69	76	71	80	72	89	73
7.....	80	61	82	67	85	63	82	67	87	85	84	71	86	70	82	70	83	72	84	73	75	70	76	71	80	73	85	73	
8.....	69	60	76	62	70	61	79	70	78	73	70	66	72	64	85	78	84	75	79	74	77	69	70	63	74	71	86	72	
9.....	73	61	67	60	71	60	79	70	78	69	71	66	70	65	82	72	82	72	71	63	66	62	76	72	80	73	83	73	
10....	75	65	70	62	75	64	78	69	78	72	68	71	87	84	71	83	74	82	71	69	63	68	61	80	71	85	72		
11....	72	66	73	64	74	65	83	69	82	71	77	64	73	69	85	71	81	71	77	70	77	68	74	65	80	72	78	72	
12....	84	67	87	68	84	67	88	71	84	72	85	64	81	70	87	77	88	73	87	72	80	71	83	65	86	72	84	72	
13....	87	69	88	67	90	66	88	71	88	74	88	66	87	68	87	79	89	75	89	79	75	84	70	87	73	86	69		
14....	85	73	89	74	90	75	91	73	87	75	88	67	89	75	87	79	89	76	91	75	82	76	87	71	87	77	94	75	
15....	92	74	91	74	91	75	90	72	88	75	91	66	91	75	86	80	88	77	93	76	84	77	88	73	89	79	95	73	
16....	93	74	93	74	95	75	90	73	92	76	93	73	93	75	86	80	89	78	97	74	84	78	89	75	92	77	95	73	
17....	95	77	96	71	97	75	93	72	90	77	96	72	94	75	88	80	90	81	95	75	85	79	90	73	93	76	92	74	
18....	97	78	97	72	98	74	93	72	92	74	96	73	96	76	88	79	89	77	98	75	84	77	94	78	94	75	97	75	
19....	95	77	96	73	96	76	94	71	89	73	95	73	95	77	90	79	91	74	96	72	91	75	92	73	90	78	97	73	
20....	89	72	88	69	93	71	92	72	88	73	91	72	90	76	89	79	88	75	92	75	84	88	85	70	90	74	95	68	
Mns..	85.0	70.8	86.5	68.5	88.3	68.8	86.5	70.6	85.7*	72.2*	86.6	69.0	85.2	71.2	86.2	76.1	86.6	74.2	87.7	72.0	81.9	71.8	83.3	69.6	86.1	72.8	89.6	71.8	

Date.	Alabama.										Mississippi.										Colum- bus. \$\$		Hatties- burg. \$\$		Jackson.		Meridan.	
	Anniston.		Bermuda.		Birming- ham.		Eufaula. \$\$		Mobile.		Montgom- ery.		Tusca- loosa. \$\$		Union- town.		Colum- bus. \$\$		Hatties- burg. \$\$		Jackson.		Meridan.					
	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		
1.....	91	63	90	65	92	69	94	62	87	75	94	69	94	62	96	68	95	61	98	72	93	71	92	69	99	70	96	69
2.....	90	67	90	66	86	67	91	64	88	69	86	69	88	67	96	66	89	67	98	70	91	67	88	67	98	70	96	67
3.....	90	65	87	67	88	65	86	66	86	72	87	67	88	68	94	68	86	68	92	67	83	69	85	67	93	70	96	67
4.....	82	69	92	67	81	69	89	67	89	71	91	70	89	68	91	66	87	67	88	66	83	68	89	69	92	69	93	69
5.....	89	70	90	67	86	70	89	71	88	70	89	68	89	70	90	69	90	70	89	69	92	64	89	70	87	70	97	
6.....	82	70	79	70	83	69	82	69	76	70	79	71	86	70	84	71	87	70	82	67	86	68	80	67	86	68	87	67
7.....	75	66	74	—	76	61	71	66	77	70	75	68	80	69	87	70	78	69	82	70	88	74	82	69	83	71	86	71
8.....	75	61	77	63	78	58	77	57	80	66	76	63	80	60	80	61	80	58	85	63	82	57	82	60	88	77	90	
9.....	75	59	75	62	77	59	75	57	73	65	78	60	82	59	79	59	82	57	73	64	81	57	80	60	86	77	91	
10....	77	61	71	60	81	59	70	60	71	63	75	63	85	57	79	64	84	56	74	62	84	56	74	62	82	58	79	
11....	79	62	77	65	83	61	78	59	78	67	81	64	86	57	82	64	88	60	76	64	88	60	76	64	83	62	80	63
12....	85	64	86	69	86	65	82	64	84	70	86	66	88	63	85	71	86	61	76	65	86	68	84	71	87	68	91	
13....	84	61	78	68	82	66	84	64	81	75	82	69	83	67	80	68	87	67	87	64	84	70	85	68	90	75	98	
14....	84	66	68	70	84	65	89	66	85	74	88	68	88	67	87	66	86	65	90	67	89	69	91	70	87	66	96	
15....	88	70	88	74	87	72	85	70	85	77	87	72	93	68	90	74	90	68	83	65	92	76	90	75	90	75	97	
16....	90	75	90	74	89	75	91	72	85	78	93	75	93	75	91	72	92	74	92	69	94	76	92	75	95	76	97	
17....	90	73	92	74	89	74	93	70	86	77	93	73	94	75	95	72	93	75	98	65	85	78	93	76	92	76	99	
18....	90	74	93	73	88	69	94	70	92	76	92	70	95	75	92	76	92	75	98	65	85	78	90	77	93	76	99	
19....	77	64	86	70	75	63	88	71	88	74	83	67	86	68	87	71	89	65	93	67	83	67	93	66	96	64	91	
20....	79	60	79	64	79	61	77	62	82	63	83	66	83	66	84	62												